

# RdbSchema

## Represents a database schema

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## 1. Overview

**RdbSchema:** *Represents a database schema*

### 1.1. Intent

The RdbSchema object is a deployment representing a database schema which is typically a dependency of an Rdb (database service) object. Schemas are modeled so that there are the following tiers:

- AppServer such as a [JBossServer](#) object depending on:
- Database Server such an [Rdb](#) object depending on:
- RdbSchema objects

Typically these objects are accessible from the application server in order to generate its datasource configuration.

## 2. Design

### Super Type Service

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>
Notification	<b>false</b>
Template Directory	
Data View	Children, proximity: <b>1</b>
Logger Name	

## 3. Constraints

### 3.1. Allowed Child Dependencies

- [RdbDataSourceName](#) 1
- RdbInstallRoot1
- [RdbMaxPoolSize](#) 1
- [RdbMaxWait](#) 1
- [RdbMinPoolSize](#) 1
- [RdbSchemaAdditionalOptions](#) 1

- [RdbSchemaName](#) 1
- [RdbSchemaParam](#)
- [RdbSchemaPassword](#) 1
- [RdbSchemaType](#) 1
- [RdbSchemaUserName](#) 1

1: These types have a *Singleton* constraint. Only one instance may be added as a resource.

### 3.2. Allowed Parent Dependencies

- Node
- [Rdb](#)

Limit this object to be referred to by Node and Rdb objects only.

## 4. Attributes

### 4.1. Defaults for Imported Attributes

Name	Default	Description
rdDataSourceName	DefaultDS	default jndi datasource name
rdbMaxPoolSize	20	default maximum pool size
rdbMaxWait	5000	default maximum wait for databasae connection in milliseconds
rdbMinPoolSize	5	default minimum pool size
rdbSchemaAdditionalOptio		Additional options for data source
rdbSchemaPassword		default schema password
rdbSchemaUserName	sa	default schema username

## 5. Commands

View the available commands in the [User Reference](#).

## 6. Related Types

The following types are defined for use with RdbSchema.

## 6.1. RdbDataSourceName

### 6.1.1. Overview

**RdbDataSourceName:** *JNDI data source name for connecting to the schema*

#### 6.1.1.1. Intent

The jndi datasource name that the application uses to reference this schema. Typically accessed by a referring application server for datasource generation.

### 6.1.2. Design

#### Super Type

[RdbSchemaSetting](#)

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>

### 6.1.3. Attributes

#### 6.1.3.1. Exported Attributes

Name	Property	Description
rdbDataSourceName	settingValue	attribute setting representing the jndi datasource name.

## 6.2. RdbMaxPoolSize

### 6.2.1. Overview

**RdbMaxPoolSize:** *DataSource maximum connections*

#### 6.2.1.1. Intent

The specified maximum pool size for referring entities that connect to this schema. Typically accessed by a referring application server for datasource generation.

### 6.2.2. Design

#### Super Type

[RdbSchemaSetting](#)

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>

**6.2.3. Constraints****6.2.4. Attributes****6.2.4.1. Exported Attributes**

Name	Property	Description
rdbMaxPoolSize	settingValue	attribute setting containing the maximum pool size

**6.3. RdbMaxWait****6.3.1. Overview**

**RdbMaxWait:** *DataSource maxwait parameter*

**6.3.2. Design****Super Type**[RdbSchemaSetting](#)

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>

**6.3.3. Constraints****6.3.4. Attributes****6.3.4.1. Exported Attributes**

Name	Property
rdbMaxWait	settingValue

**6.4. RdbMinPoolSize**

### 6.4.1. Overview

**RdbMinPoolSize:** *DataSource* minimum connections

#### 6.4.1.1. Intent

The specified minimum pool size for referring entities that connect to this schema. Typically accessed by a referring application server for datasource generation.

### 6.4.2. Design

#### Super Type

[RdbSchemaSetting](#)

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>

### 6.4.3. Constraints

### 6.4.4. Attributes

#### 6.4.4.1. Exported Attributes

Name	Property	Description
rdbMinPoolSize	settingValue	attribute setting containing the minimum pool size

## 6.5. RdbSchemaAdditionalOptions

### 6.5.1. Overview

**RdbSchemaAdditionalOptions:** *Additional options for data source*

### 6.5.2. Design

#### Super Type

[RdbSchemaSetting](#)

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>

### 6.5.3. Constraints

#### 6.5.3.1. Allowed Parent Dependencies

- AtgRdbSchema
- [RdbSchema](#)

### 6.5.4. Attributes

#### 6.5.4.1. Exported Attributes

Name	Property
rdbSchemaAdditionalOptions	settingValue

## 6.6. RdbSchemaName

### 6.6.1. Overview

**RdbSchemaName:** *A schema name*

#### 6.6.1.1. Intent

Specifies the name of the database schema. Typically accessed by a referring application server for datasource generation.

### 6.6.2. Design

#### Super Type

[RdbSchemaSetting](#)

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>

### 6.6.3. Attributes

#### 6.6.3.1. Exported Attributes

Name	Property	Description
rdbSchemaName	settingValue	attribute setting representing a database schema name.

## 6.7. RdbSchemaParam

### 6.7.1. Overview

**RdbSchemaParam:** *A schema parameter*

### 6.7.2. Design

#### Super Type

[RdbSchemaSetting](#)

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>

## 6.8. RdbSchemaPassword

### 6.8.1. Overview

**RdbSchemaPassword:** *A schema user's password*

#### 6.8.1.1. Intent

The password used to access the database schema. Typically accessed by a referring application server for datasource generation.

### 6.8.2. Design

#### Super Type

[RdbSchemaSetting](#)

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>

### 6.8.3. Constraints

### 6.8.4. Attributes

#### 6.8.4.1. Exported Attributes

Name	Property	Description
rdbSchema	settingType	



rdbSchemaPassword	settingValue	attribute setting containing the password required for database schema access Typically accessed by a referring application server for datasource generation.
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## 6.9. RdbSchemaSetting

### 6.9.1. Overview

**RdbSchemaSetting:** *an RdbSchema setting*

#### 6.9.1.1. Intent

Supertype to encapsulate related subtypes to support RdbSchema deployments.

### 6.9.2. Design

#### Super Type Setting

Role	<b>Abstract.</b> (Objects cannot be created.)
Instance Names	<b>Unique</b>

### 6.9.3. Constraints

#### 6.9.3.1. Allowed Parent Dependencies

- [RdbSchema](#)  
RdbSchema settings shall only be referred to by RdbSchema objects.

## 6.10. RdbSchemaType

### 6.10.1. Overview

**RdbSchemaType:** *A schema name*

### 6.10.2. Design

#### Super Type [RdbSchemaSetting](#)

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>

### 6.10.3. Attributes

#### 6.10.3.1. Exported Attributes

Name	Property
rdbSchemaType	settingValue

## 6.11. RdbSchemaUserName

### 6.11.1. Overview

**RdbSchemaUserName:** *A user for a schema*

#### 6.11.1.1. Intent

The username used to access the database schema. Typically accessed by a referring application server for datasource generation.

### 6.11.2. Design

#### Super Type

[RdbSchemaSetting](#)

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>

### 6.11.3. Attributes

#### 6.11.3.1. Exported Attributes

Name	Property	Description
rdbSchemaUserName	settingValue	attribute setting containing the username required for database schema access
schemaFromUser	settingType	